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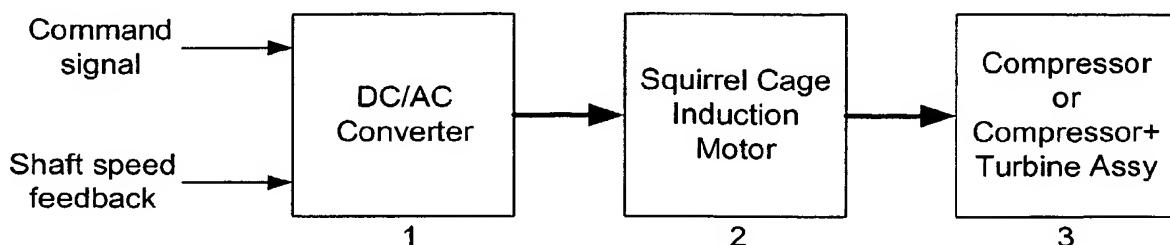
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(54) Title: MOTOR CONTROL AND DRIVER FOR ELECTRIC BOOSTING APPLICATION



(57) Abstract: The invention proposes a system for driving a compressor, comprising an induction motor (2) for driving the compressor (3), said induction motor including a squirrel cage rotor, and a controller (1) for controlling the induction motor, said controller comprising a memory for storing drive patterns for driving the induction motor, a first frequency generation means for generating a field frequency based on a field command and/or a second field generation means for generating a voltage frequency based on a voltage command, wherein a drive pattern is extracted from the memory based on the generated frequency or frequencies. Alternatively, the invention proposes a system for driving a compressor, comprising an induction motor (2) for driving the compressor (3), said induction motor including a squirrel cage rotor, and a controller (1) for controlling the induction motor, wherein the controller is adapted to distinguish between a steady state and a transient state of the induction motor.

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